Page 1 of 6 Safety data sheet according to GHS Rev 07 Valid from: 01/01/2022 **DURATHERM 600** 



# Safety Data Sheet (SDS)

### In accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe

Work Australia, 2011) and GHS Rev (07)

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier Product form: Trade name: Product code: Recommended application:

Mixture Duratherm 600 Duratherm 600 Heat Transfer Fluid

#### Importer/Supplier of the safety data sheet

Heat Systems Group Pty Ltd 45 Merri Concourse Campbellfield, Victoria, 3061 Australia T: +61 3 9357 7393 E: info@heatsystems.com.au W: www.heatsystems.com.au

Emergency telephone number: +61 423 505 938 (Australia only)

### **SECTION 2: Hazards identification**

Classification of the substance or mixture

This substance is not classified according to the Globally Harmonized System (GHS)

#### Label elements

GHS label elements: Hazard pictograms: Signal word:

Description of first aid measures

Non-regulated material, no labeling elements Non-regulated material No signal word, non-regulated material

## **SECTION 3: Composition/information on ingredients**

### 3.1 Substance

Not applicable

#### 3.2 Mixture

Chemical Characterization: Mixture Classification according to GHS: Not classified Dangerous Components: None, non-regulated material

Component Name	Identification	Classification according to	%
		GHS	
Hydrocarbon Base Fluids	CAS #: 8042-47-5	Not classified	>60
Proprietary Additives	Trade Secret	Not classified	<10

### **SECTION 4: First aid measures**

#### Supply person with fresh air and consult doctor according to symptoms. Inhalation: Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and Skin contact: soap, in case of irritation of the skin (flare), consult a doctor. Remove contact lenses. Wash thoroughly for several minutes using copious water. Seek Eye contact medical help if necessary. Rinse the mouth thoroughly with water. Do not induce vomiting. Consult doctor Ingestion immediately.

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### Indication of any immediate medical attention and special treatment needed

Treat symptomatically

# SECTION 5: Firefighting measures

Suitable extinguishing media: Unsuitable extinguishing media: Water jet spray/foam/CO2/dry extinguisher High volume water jet

### Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon, toxic gases

#### Advice for firefighters

In case of fire and/or explosion do not breathe fume use protective respirator with independent air supply. According to size of fire use full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

### **SECTION 6: Accidental release measures**

Personal precautions, protective equipment and emergency proceduresPersonal precautions protective equipment:Not requiredEnvironmental precautions:If leakage occurs, dam

Not required If leakage occurs, dam spillage and resolve leaks as soon as possible. Prevent fluid from entering drainage systems. If fluid accidently enters drainage system alert authorities

### Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, oil-dry, sand, diatomaceous earth) and dispose in accordance with local regulations

#### Reference to other sections

See section 7 for information on safe handling, see Section 8 for information on personal protection equipment, see Section 13 for disposal information

### **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

Precautions for safe handling:

Information about protection against explosions or fires: Requirements to be met by storerooms: General guidelines: No special measures required No special measures required Store in a cool dry place Ensure good ventilation; avoid contact with eyes or skin

#### Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable Wash hands before breaks and at end of work Keep away from food, drink and animal feed

Remove contaminated clothing and protective equipment before entering areas in which food is consumed

### SECTION 8: Exposure controls/personal protection

Jontrol parameters		
Source	Material	TWA (mg/m³)
Australia Exposure Standards	Hydrocarbon, 8042-47-5	5

#### **Exposure controls:**

Appropriate engineering controls:

#### Personal protective equipment:

Hand protection:

Contain with oil absorbing material (oil dry). Remove oil absorbing material and dispose lawfully

PVC, neoprene, or nitrite gloves. Gloves should be replaced immediately if damaged or worn

Eye protection:

Eye protection necessary where liquid could be splashed or sprayed

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Materials for protective clothing: Hand protection:

Respiratory protection:

Environmental exposure controls: Consumer exposure controls: Other: PVC, neoprene, or nitrite gloves
In case of repeated or prolonged contact wear gloves and use moisturizing skin cream
Normally not required in areas with adequate ventilation. In areas with poor ventilation or in the case of likely misting use appropriate respiratory equipment
See section 12
PVC gloves. Neoprene or nitrile rubber gloves
Wash hands thoroughly after exposure. Do not eat drink or smoke during use. Wash contaminated clothing before use

### **SECTION 9: Physical and chemical properties**

Light yellow, clear

Liquid

# Information on basic physical and chemical properties

Physical state: Color: Odor: Odor threshold: pH-value: Melting point/freezing point: Initial boiling point and boiling range: Flash Point ASTM D92 (COC): **Evaporation Rate:** Flammability (solid, gas) Lower explosive limit: Upper explosive limit: Density @ 20°C: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water) Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties Oxidizing properties:

### Other information

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content: Characteristic Not determined Not determined Not determined >600°F (>315°C) >425°F (>218°C) NA NA Not determined Not determined 0.85-0.88 g/ml NA Not determined Insoluble Not determined Not determined Not determined 41 cSt @ 40°C NA Not determined

Not determined Not determined Not determined Not determined Not applicable

#### **SECTION 10: Stability and reactivity**

Reactivity: Chemical Stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products: Stable under normal conditions Stable under normal conditions No dangerous reactions known See section 7 Strong oxidizing agents, acids No dangerous decomposition products known

**SECTION 11: Toxicological information** 

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Possibly more information on health effects, see Section 2 (classification).

Acute toxicity:

Not Classified

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Toxicity/effect	Endpoint	Value	Unit	Organism	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	
Acute toxicity, by inhalation:	LD50	>2500	mg/kg/ 4hr	Rat	

Skin corrosion/irritation:

Serious eye damage/irritation: Respiratory or skin sensitization: Repeated does toxicity: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Other information: Not classified – Unlikely to cause harm to harm to skin with brief contact, long term contact may cause dermatitis Not classified Not classified

Not classified Not classified Not classified Not classified No further information available

### **SECTION 12: Ecological information**

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Toxicity/effect	Endpoint	Value	Unit	Organism	Notes
Toxicity to fish:	LD50	>100,000	mg/kg /96hr	Trout	
Toxicity to daphnia:					n.d.a.
Toxicity to algae:					n.d.a.
Persistence and degradability:					n.d.a.
Bio-accumulative potential:					n.d.a.
Mobility in soil:					n.d.a.
Results of PBT and vPvB assessment:					n.d.a.
Other adverse effects:					n.d.a.

### **SECTION 13: Disposal considerations**

### Waste treatment methods

### For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of

#### For contaminated packing material

Pay attention to local and national official regulations

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld un-cleaned container.

# **SECTION 14: Transport information**

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HAZCHEM:

**UN number** 

ADR:

DOT, ADN, IMDG, IATA:

Packaging Group DOT, ADR, IMDG, IATA:

"Model Regulation"

Environmental hazards Marine pollutant:

**UN proper shipping name:** DOT, ADR, ADN, IMDG, IATA:

Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA:

Special precautions for users:

Transport in bulk according to Annex II: of MARPOL 73/78and IB Code UN



None (ADG6)

Non-regulated material Non-regulated material Non-regulated material Non-regulated material Non-regulated material No

Not applicable

### **SECTION 15: Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture

Poisons Standard (SUSDP)

No Poisons Schedule number allocated

Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.

#### The components of this product are reported in the following inventories:

AICIS On the inventory, or in compliance with the inventory DSL All components of this product are on the Canadian DSL NZIOC On the inventory, or in compliance with the inventory ENCS On the inventory, or in compliance with the inventory KECI On the inventory, or in compliance with the inventory PICCS On the inventory, or in compliance with the inventory IECSC On the inventory, or in compliance with the inventory VCSI On the inventory, or in compliance with the inventory US.TSCA On TSCA Inventory

#### Labeling requirements

GHS label elements Hazard pictograms Signal word

Non-regulated material Non-regulated material Non-regulated material

### **SECTION 16: Other information**

These details refer to the product as it is delivered.

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

Any abbreviations and acronyms used in this document: Article Categories according, according to

AC acc., acc. to Page 6 of 6

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ADR Art., Art. no.	Accord européen relatif au transport international des marchandises Dangereuses par Route Article number
ATE	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BOD	Biochemical oxygen demand
CAS	Chemical Abstracts Service
CEC	Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants
CLP	Classification, Labeling and Packaging (REGULATION (EC) No 1272/2008 on classification,
	labeling and packaging of substances and mixtures)
CTFA	Cosmetic, Toiletry, and Fragrance Association
e.g.	for example (abbreviation of Latin 'exempli gratia'), for instance
EC	European Community
ECHA	European Chemicals Agency
EEA	European Economic Area
EEC	European Economic Community
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EN	European Norms
EPA	United States Environmental Protection Agency (United States of America)
ERC	Environmental Release Categories
ES	Exposure scenario
Fax.	Fax number
gen.	general
ĞHS	Globally Harmonized System of Classification and Labelling of Chemicals
HMIS	Hazardous Material Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
IBC (Code)	International Bulk Chemical (Code)
IC	Inhibitory concentration
LC	lethal concentration
LC50	lethal concentration 50 percent kill
LD50	Lethal Dose, 50% kill
n.a.	not applicable
n.av.	not available
n.c.	not checked
n.d.a.	no data available
NFPA	National Fire Protection Association
ppm	parts per million
UN RTDG	United Nations Recommendations on the Transport of Dangerous Goods
VOC	Volatile organic compounds
WHO	World Health Organization
wwt	wet weight

These statements were made by: Duratherm, P.O Box 563, Lewiston, NY, 14092, Tel.: 1-905-984-6677, info@durathermfluids.com